

FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

21 DECEMBER 1978

GLORY · TO · GOD · IN · THE · HIGHEST
AND · ON · EARTH · PEACE · GOODWIL
L · TOWARD · MEN · GLORY · TO · GOD
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PATRICIA LOUISE AUSTIN 1922-1978

Patricia "Pat" Austin, internationally known and respected physical educator, died on 10 December 1978 at Princess Margaret Hospital in Toronto. At the time of her death she was on leave of absence from the University of Alberta where she had taught since 1947.

Pat Austin's contribution to the field of physical education was outstanding. She was known across Canada and also in the United States for her work in women's physical education and for her deep concern for the mentally retarded.

She obtained her Bachelor's degree in Health and Physical Education from the University of Toronto in 1943 and was the recipient of the Emma Scott Naismith Gold Medal. After high school teaching in the Toronto area from 1944-47, she accepted a teaching appointment at the University of Alberta where she became very involved in the development of its undergraduate and graduate programs in physical education. In 1949 she completed the MA degree in Physical Education and in 1965 completed the Doctor of Philosophy degree at Michigan State University.

Along with a busy teaching schedule she gave generously of her time to further her profession and to serve the community. She was instrumental in the organization of the Women's Division of the Western Canadian Intercollegiate Athletic Association. She served as an advisor to the building committee of the YWCA. She was a founding member of the Edmonton Women's Branch of CAHPER, the Canadian Association for Health, Physical Education and Recreation.

FOLIO

Inquiries concerning the placement of Notices and Advertisements in *Folio* and all other correspondence with the Editor should be addressed to:

Folio,
Office of Community Relations
423 Athabasca Hall
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Edmonton, Alberta
T6G 2E8
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This branch recognized her contributions by honoring her at their awards banquet in 1970. The following year, the national organization honored her with its highest recognition when Dr. Austin was given the CAHPER Honor Award at the 1971 Convention in Waterloo.

Although her contributions were outstanding, wide reaching, and have had lasting effects on numerous young people, she was perhaps best known for her efforts on behalf of the mentally retarded. She was frequently called upon as a speaker and consultant in this area. Her involvement with the Alberta Committee for the Dependent Handicapped, the Alberta Special Games for the Mentally Retarded, the Alberta Association—Recreation for the Disabled, and the Canadian Association for the Mentally Retarded gives some indication of her commitment to this area. Special mention must be made of PREP, the Pre-School Play Program for retarded children, which was founded by Dr. Austin at the University of Alberta. The well constructed base that was established for this program has allowed other staff and students to further its original aims and objectives.

REGISTER OF STANDING COMMITTEES

STANDING COMMITTEES OF THE COUNCIL OF THE FACULTY OF GRADUATE STUDIES AND RESEARCH

General Research Grants Committee

Purpose: To administer the General Research Fund from which grants-in-aid of research are made to members of the academic staff of the University.

Meetings: At call

Membership:

Ex Officio

The Dean of Graduate Studies and Research

The Research Grants Officer, *Secretary*

Appointed

DM Baker, *Chairman* (3/1979)

KE Denford (3/1980)

G Hirabayshi (3/1980)

YJ Kingma (3/1980)

TO Maguire (3/1979)

EE Knaus (3/1979)

Reports: Minutes of the meetings and annual report to the President at the end of the fiscal year

Humanities and Social Sciences Research Grants Committee

Purpose: To administer the Humanities and Social Sciences Research Fund from which grants-in-aid of research and travel to international conferences are made to members of the academic staff of the University.

Meetings: At call

Membership:

Ex Officio

The Dean of Graduate Studies and Research

The Research Grants Officer, *Secretary*

RS Pannu, *Chairman* (6/1978)

DE Bessai (6/1979)

A Buse (6/1980)

DK Kieren (6/1980)

Reports: Minutes of meetings and annual report to the President at the end of the fiscal year.

Research Reporter

The research reporter, primarily designed to attract the interest of persons in the commercial communications media, is included in Folio on a monthly basis because of the interest shown by the University community in its brief reports. Short descriptions of research—any kind of research—should be sent to Research Reporter, Office of Community Relations, 423 Athabasca Hall. All reports are checked with those concerned prior to being printed.

Book of Magic Being Translated

"A cookbook of magic" is the simplest way to describe the text Mike Morgan is translating. The ancient Hebrew document, thought to have originated in the third or fourth century, is a practical guide on how to get ahead in the world: how to win at the horse races, how to ensure success in love, how to guard against fires, how to impress people, how to speak to ghosts, how to be invulnerable to creditors, and so on.

It seems that the concerns of the people of that time weren't all that different from ours. But it is not any faith in the various incantations and formulas in *Sefer Ha-Razim* (*Book of Secret Mysteries*) that has prompted Professor Morgan's interest. Rather the Assistant Professor of Religious Studies, is interested in the wealth of information contained relating to two of his major research interests: angelology, the study of angels; and the study of how religious movements of antiquity interrelate.

The *Book of Secret Mysteries*, of which the only modern translation is in Hebrew, has been known to scholars since the turn of the century, but little attention was paid to it as it was thought to be only one of the many volumes of magic which originated in the Medieval times. Then, in the 1960s scholars going through material which had once been in the geniza—the room used to store sacred books prior to their being buried—of a Cairo synagogue discovered some of the same text. That placed the origin of the book as being prior to 800 AD, and scholarly interest was renewed. Now most scholars agree that the text originated in about the third or fourth century AD, and some of the material is much earlier.

Professor Morgan explains that the *Book of Secret Mysteries* is important because not much is known about how ordinary people defined themselves in relation to the religious options of the first few centuries AD, when many religions and cultures were interacting. And he stresses the fact that this book does not, in any way, represent the

orthodox religion of the time. The Jewish Orthodoxy strongly opposed magic, but, nevertheless, it had supporters. The fact that even less is known about popular religious belief than about the orthodox religion of the time makes this volume even more important.

Professor Morgan describes the *Book of Secret Mysteries* as identifying more angels than are listed almost anywhere else. The book discusses seven individual heavens each with its complement of angels; the first heaven has seven archangels, each having as many as eighty ministering angels and others having more or less. Each heaven has its purpose, as does each angel. The person requiring help is instructed how to call upon the appropriate angel and what must be done to ensure assistance. In some cases the preparations necessary to obtain assistance are simple—merely gathering a few pine cones to throw upon a fire, or placing a salamander in a jar of oil—others are much more complex and dangerous, even involving the slaughtering of lions.

Professor Morgan finds the imprints of a variety of religions throughout the text. He relates many of the angels to Greek gods; elsewhere is evident the influence of Zoroastrianism and Egyptian belief. In other places ceremonies involving bread and the mingling of blood and wine immediately bring to mind Christianity; in fact, one of the angels is named Christos, the Greek name for Christ.

Professor Morgan hopes to have completed his translation and a commentary on the volume by next summer. Currently, two scholarly publishers are interested in obtaining the right to publish the completed work.

Practicality of Herbicides for Forest Thinning Investigated

He says it is too soon to reach definite conclusions, but William G. Corns is encouraged by the results obtained from experiments designed to find a practical way to thin stands of lodgepole pines in order that the trees will develop to the point where they are of commercial use.

The Professor of Plant Science says that in burned-over lodgepole pine areas, seeds released from the old pine cones typically lead to stands of new seedlings almost "as thick as hair on a dog's back." Consequently the trees remain dwarfed and useless for commercial purposes.

Mechanical thinning of these areas is laborious and expensive. Dr. Corns and his colleagues feel that the use of herbicides would be a practical alternative if the herbicides could be used selectively and without adverse effects on the environment. They have experimented with two methods: broadcasting herbicide pellets to clear small areas at random, and clearing streaks, along which the bordering trees can prosper.

Dr. Corns says that the streak treatment is the simplest and seems the most intriguing at present. The treatment has the added advantage that there is the possibility that new grass and shrub growth in the cleared area could provide better support for some wildlife species by providing the edge-effect environment which they favor.

Physical Education Research Studies Flexibility

It seems that Canadians have awakened to a desire to be physically fit. Sandy O'Brien says that an important aspect of fitness—along with strength, muscular endurance, and aerobic capacity—is flexibility, also described as suppleness or joint mobility.

Flexibility is a special research interest of the Assistant Professor of Physical Education, and she makes a good case for it. She says that supple individuals tend to move more efficiently, have less tendency to suffer muscle pulls, and move aesthetically and use less effort in the process.

How then does one go about attaining (or retaining) flexibility? It's not that difficult, says Professor O'Brien: it is basically a matter of regularly stretching the muscles—and a recent research project shows that need not be strenuous.

The study carried out jointly by Professor O'Brien and Keith Russell, National Coach for the Canadian Gymnastics Federation, concerned the mobility of the hip joint, the largest ball and socket joint in the body. Without conscious guidance, our postural reflexes maintain a balanced posture all day long; therefore the muscles of the hip are very reluctant to relax when we are consciously stretching. The investigators wondered if there was one method of stretching superior to others. In their study they investigated the effects of six methods of stretch on improving hip mobility with the help of 119 volunteer college women enrolled at the University of British Columbia.

An important aspect of the study was that it distinguished between active and passive

stretch—few researchers in the fitness area acknowledge that flexibility includes both active and passive ranges of motion, says Professor O'Brien. She says that active stretch involves the stretching of one muscle with the contractions of another—which is what happens when one lifts an extended leg as far as possible from the floor—while passive stretch involves only muscle lengthening while relaxing—for example, lowering the chest to the knees while sitting.

In the study, volunteers were organized into seven groups. Three groups did active stretch exercises, three did passive stretch exercises, and one group acted as a control. The exercises were done for ten minutes, three times a week for three weeks.

At the end of that time, the women were tested for improvement in both passive and active ranges of motion. All groups had improved substantially. Measurement of the "leg splits" the girls could achieve while lying on the back showed normal gains of twenty to thirty degrees—the leg extended at right angle to the body would be ninety degrees; gymnasts are capable of 150 degrees. Even the control group had improved from the regular measuring that took place. The surprising result was that while passive methods of stretch were superior for improving the passive range of motion, active methods of stretch were not superior for active hip flexion improvement.

A highly effective exercise was one called "relaxation stretch." Done in a quiet area, this passive stretch involves very slowly lifting, with the hands, one's leg to the point where there is tolerable stretch but not discomfort. This position is held while one concentrates on releasing all the tension in the stretched muscle; when you feel tension you have lost control and must start over. Professor O'Brien says that, to be effective, the stretch must be held for sixty seconds—time to relax and gain back mobility lost during the tensions of the day.

Professor O'Brien says that any strenuous exercise involving repetitive contractions of muscles causes adaptive shortening, and stretching muscles while they are warm, relaxed, and fatigued is a very sensible thing to do. Joggers, she says, should be sure to stretch out the backs of their legs before and after running.

January 1979

December

3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31

February

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18 19 20 21 22 23 24
25 26 27 28

March

4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31



sunday

7

14

21

28

monday

1

■ New Year's Day
University buildings closed

8

■ Special meeting of GFC
Executive Committee to discuss
submissions of the final report
of the University Priorities
Committee

15

■ Meeting of the GFC
Executive Committee

22

■ Special meeting of the General
Faculties Council on the Final
Report of the Universities
Priorities Committee

29

■ Meeting of the General
Faculties Council

tuesday

2

■ Meeting of the Campus
Development Committee

9

■ Meeting of the Departmental
representatives of the Non-Academic
Staff Association
■ Meeting of the Council of the
Graduate Students' Association

16

23

30

wednesda

3

■ Second term

10

17

■ Meeting of

24

31



The Purification of the World—drawn by Ed Metatawabin
An old Indian prophecy, originating with the Navaho of the southwestern United States long before the whiteman came, tells that one day the earth will consume itself out of existence. Then a great purification will take place, ending all life as we know it, and the world, thus purified, will begin again. According to Ed Metatawabin, Assistant Adviser on Native Affairs at the University, “the core of Indian philosophy, if there is a core, is Navaho”; by whatever means, Navaho prophecies and legends were spread through other tribes and became a part of their religion.

Classes begin

thursday

4

- Meeting of the Academic Development Committee

11

- Meeting of the University Planning Committee
- Meeting of the Academic Development Committee

Students' Council

18

- Meeting of the Academic Development Committee

25

- Meeting of the Academic Development Committee
- Meeting of the University Planning Committee

friday

5

12

- Meeting of the Board of Governors
- Meeting of the Council of Graduate Studies and Research

19

26

saturday

6

13

20

27

Museum Aids Entomology Research

Room 256 is a room with a difference; it's also one of the more interesting rooms on campus. That room in the University of Alberta's Agriculture Building houses the museum of the Department of Entomology—it is literally a room full of bugs.

Not crawling with bugs, mind you. The insects in the museum, The Strickland Entomology Museum, are carefully pinned, labelled, and mounted in neat rows. And there are an awful lot of them—well over a million says Dan Shpeley, the assistant curator of the museum. He should know—he's mounted a good portion of them. The collection has, in fact, outgrown Room 256, and it now extends into neighboring rooms as well.

The University museum has one of the continent's best collections of ground beetles; this, says Mr. Shpeley, is a reflection of the special research interest of the curator, G.E. Ball. Dr. Ball, also the Entomology Department Chairman, is currently on sabbatical leave in Mexico—the collection is particularly good in the area of Mexican ground beetles and will, no doubt, be even better when Dr. Ball returns.

The museum is primarily a research resource, serving as a reference centre and providing entomologists the means by which they can readily compare new specimens. Its benefits are not limited to just University scientists, says Mr. Shpeley; specimens often go out on loan to a variety of institutions in the Province and beyond.

PEOPLE

■ Abram G. Konrad, Coordinator of the Centre for the Study of Postsecondary Education, opened a conference on Deans as Individuals in Organizations with a presentation, "Deans in Canadian Higher Education: A Profile and Selected Perspectives," on 5 November in Toronto. The conference was sponsored jointly by the Ontario Institute for Studies in Education and the University Council for Educational Administration of Columbus, Ohio.

NOTICES

Notices must reach the Editor by 9 a.m. the Thursday prior to publication. Written notification is necessary. Notices should be sent to Folio Notices, 423 Athabasca Hall.

General Faculties Council Committee Vacancies

The GFC Nominating Committee is seeking

nominations for persons to fill vacancies on the following committees.

A vacancy exists on the *Selection Committee for the Dean of Library Science* for one member of the academic staff, not a member of the faculty concerned, to be elected by GFC. A vacancy also exists for one person to serve on the *Varsity Guest Weekend Advisory Committee*.

Those people who have suggestions for nominations or who are interested in serving on the above committees are requested to contact the Secretary of the Nominating Committee, 2-1 University Hall, telephone 432-4715. It would be appreciated if a brief vita could accompany any nomination.

French Courses

The School of the Alliance française, a non-profit organization, is conducting evening French courses for adults and children. The courses will start on 15 January 1979. Registration will take place at 8 and 10 January from 4 p.m. to 8 p.m. in 232 Education Building. For further information, telephone 468-3414 after 4 January.

Birthright

Birthright is an emergency pregnancy service offering free and confidential advice and assistance. The new telephone number of the organization is 488-0681.

THIS WEEK AND NEXT

Listings must reach the Editor by 9 a.m. on the Thursday prior to publication. Written notification is necessary. Listings should be sent to Folio Listings, 423 Athabasca Hall.

MUSIC

Provincial Museum

29 December, Friday 8 p.m. Members of the Edmonton Modern Rhythmic Gymnastic Association and the Los Angeles School of Gymnastics will perform gymnastic dance routines. Tickets available at the door.

FILMS

Citadel/National Film Theatre

22 December, Friday 7:30 and 9:15 p.m. *The Wizard of Oz* (United States, 1939).
23 December, Saturday 1:30 and 3:30 p.m. *The Wizard of Oz* (United States, 1939). Zeidler Hall.
24 December, Sunday 8 p.m. *Jesus Christ, Superstar* (United States, 1973).
27, 28, 29 December 7:30 p.m. Double Feature of Russian Films: *Mussorgsky* (USSR, 1951); *Podranki/The Orphans* (USSR, 1977). Zeidler Hall. For ticket information

contact the Citadel Box Office, telephone 425-1820.

Provincial Museum

23 December, Saturday 2 p.m. *A Man Called Flintstone*, an animated film. Free admission.
24 December, Sunday 2 p.m. *Wuthering Heights*, part of a romantic film series. Free admission.
26 December, Tuesday 2, 4, and 7 p.m. *The Old Fashioned Way* with W.C. Fields. Free admission.

THEATRE

Citadel Children's Theatre

To 29 December. *Storytheatre*, a musical show based on the ancient tradition of village storytelling. For ticket information and show times contact the Citadel Box Office, telephone 425-1820.

Northern Light Theatre

Continuing. Overruled by Bernard Shaw. Directed by C. Holte Davidson. For ticket information and show times, telephone 426-4292.

Citadel Theatre

Continuing. Flowers For Algernon. Directed by Peter Coe and starring William Atherton. Shoctor Theatre. For ticket information and show times contact the Citadel Box Office, telephone 425-1820.

EXHIBITIONS

Edmonton Art Gallery

Continuing. "The Picture Show," an exhibition intended to broaden the viewer's awareness of pictorial art. "The Other 19th Century," an exhibition consisting of 69 paintings and 17 sculptures in the "salon" style. An exhibition of paintings by folk artist Doris Zaharichuk. An exhibition of color photographs by Robert Brunelle. "Picasso," an exhibition of paintings and prints by the artist. An exhibition and sale of portraits in oil by the late Calgary artist W.L. Stevenson.

Centennial Library

Continuing. An exhibition of the art work of Beulah Limber. Foyer Gallery.

Provincial Museum

Continuing. "Images from Alberta's Southeast," an exhibition of southeast badlands. "People of the Andes," an exhibition of contemporary photographs by Paul Chesley, and a small collection of Peruvian ceramics. "French Folk Art," an exhibition that interprets the origins, approaches, and traditions of French folk art. "Back Gold in Alberta," a collection of documents recording the history of oil drilling in Alberta.
29, 30 December 1 to 4 p.m. Museum Open

House. Visit the work areas behind the scenes in natural history, human history, and exhibit production. Archives area open on 29 December only.

University Art Gallery and Museum
Continuing. The graphic work of Felix Vallotton.

Multicultural Heritage Centre
To 23 December. An exhibition featuring Christmas toys. 5411 51 Street, Stony Plain. Open from 10 a.m. to 4 p.m. Tuesdays through Saturdays; 12 p.m. to 4 p.m. Sundays.

Special Collections
Continuing. "Georg Kaiser, 1878-1945: Centenary Exhibition." First editions, letters, and documents of the major German playwright. 037 Cameron Library. "The Tercentenary of John Bunyan's *Pilgrim's Progress*," 037 Cameron Library.

POINTS OF INTEREST

Christmas Tree Sales
To 23 December, 12 noon to 9 p.m. daily. Forestry students Christmas tree sales. South end of Corbett Hall, 112 Street and 82 Avenue.

NON-CREDIT COURSES

FACULTY OF EXTENSION

The courses listed below are offered under the auspices of the Faculty of Extension. Registrations may be made and information concerning the instructors and contents of the courses may be acquired at 228 Corbett Hall or by telephoning the number at the end of each listing.

Planning for Timber Resource Allocation
Beginning: 11 January 1979. *Duration:* Two days. *Fee:* \$135. *Telephone:* 432-5067 or 432-5066.

Managing Investments
Beginning: 16 January, 1979. *Duration:* Twelve weeks. *Fee:* \$80 (married couples: \$65). *Telephone:* 432-5066 or 432-5067.

Management of Personal Finances
Beginning: 17 January 1979 (introductory course), 23 January 1979 (second level course). *Duration:* Twelve weeks (introductory course), six weeks (second level course). *Fee:* \$75 (introductory course), \$80 (second level course). *Telephone:* 432-5066 or 432-5067.

POSITIONS VACANT

Part-time Programmer/Analyst

A Programmer/Analyst is required part-time to write new plotting software, give workshop/courses, and look after specific graphic software. The candidate should be willing to work twenty hours per week and should know FORTRAN and MTS systems. He or she should have an interest and experience in computer graphics and have some

working knowledge of IBM 360/370 assembler. The salary is \$6 per hour and the working hours are flexible. Apply to P. Buttuls, 333 General Services Building, telephone 432-2261.

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 15 December.

Clerk (\$695-\$748)—Office of the Comptroller, Payroll; Purchasing
Clerk Typist I (\$695-\$748)—Office of the Comptroller
Duplicating Operator I (\$695-\$803)—Law
Clerk Typist II (\$348-\$402, part-time)—Educational Research Services
Clerk Typist II (\$695-\$803, trust)—Institute of Law Research and Reform
Clerk Typist II (\$695-\$803)—Linguistics; Office of the Comptroller; Provincial Laboratory
Clerk Steno II (\$695-\$830)—Mechanical Engineering; Dean of Education
Dental Assistant (\$721-\$863)—Community Dentistry
Clerk Typist III (\$748-\$895)—Plant Science; English
Clerk Steno III (\$772-\$929)—Educational Psychology; Secretariat
Clerk Steno III (\$772-\$929, trust)—Community Medicine
Programmable Typewriter Operator II (\$803-\$969)—Personnel Services and Staff Relations
Admission Records Trainee (\$803-\$969)—Office of the Registrar
Data Entry Operator II (\$830-\$1,007)—Sociology
Secretary (\$863-\$1,053, trust)—Riel Project
Secretary (\$863-\$1,053)—Canadian Institute of Ukrainian Studies
Departmental Secretary (\$969-\$1,192)—Psychiatry
Computer Assistant I (\$695-\$830)—Computing Services
Technical Assistant (\$830-\$1,009)—Pharmacology
Chemical Technician II (\$1,009-\$1,243)—Animal Science
Technician II (Horticulture) (\$1,009-\$1,243)—Plant Science
Biochemistry Technologist I (\$1,009-\$1,243, trust)—Pharmacology
Technologist I (Pharmacology) (\$1,009-\$1,243, trust)—Pharmacology
Technologist I/II (RT or MLS BSc) (\$1,009-\$1,415, term, trust)—Medicine
Draftsman II/III (\$1,053-\$1,476)—Purchasing, Interior Design
Programmer/Analyst II (\$1,192-\$1,476)—Computing Services
Programmer/Analyst II/III (\$1,192-\$1,759)—Computing Services
Machinist Technician III (\$1,298-\$1,611)—Physics
Technologist IV (Biochemistry) (\$1,476-\$1,838, trust)—Medicine

The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board in the Cameron Library, Room 512, should be consulted for further information as to availability and position requirements.

Library Clerk II (\$695-\$830)—Acquisitions
Library Clerk III (\$748-\$895)—Cataloguing
Library Assistant I (\$830-\$969)—Cataloguing (two positions)
Secretary (\$863-\$969)—Cataloguing
Assistant to the Buyer (\$863-\$1,053)—Administration

ADVERTISEMENTS

All advertisements must be received by 4:30 p.m. on the Thursday prior to publication. The cost is 15 cents per

word for the first week and 5 cents per word for subsequent weeks ordered before the next deadline. Advertisements must be paid for in advance, and are accepted at the discretion of the Editor. We regret that no advertisements can be taken over the telephone. For order forms or further information, telephone 432-2325.

Accommodations available

For rent—three bedroom bungalow, partly furnished. University area. \$500 plus utilities. Available 1 January. 487-3053.

For sale—Magnificent river valley view! Attractive five bedroom hillside bungalow located two miles southwest of city. Asking \$169,900. Exclusive agent: Spencer Real Estate Ltd. Sales consultant Jeanne Eid. Res. 434-5780 or bus. 436-5250.

For sale—Comfortable four bedroom home adjacent to campus. Immediate possession. Call Keith Jorgenson 436-3305, res. 434-5820 Graham Realty.
For rent—Unfurnished bungalow in Duggan area. Three bedrooms, two bathrooms, all appliances included. Completely finished basement, double garage. Drapes included. 434-3872.

For sale—\$84,900 Malmö. Two storey, four bedrooms upstairs, formal dining room, finished rumpus room, attractively landscaped lot. Call Liz Crockford 434-0555 res. 436-5250 Spencer Real Estate.

For sale—Riverbend extra spacious split level. Huge master bedroom with double closets and three piece bath. Family room with fireplace adjacent to kitchen. Double garage. Early possession. Call Liz Crockford 434-0555. Spencer Real Estate 436-5250.

For sale—Hearthstone. Large unit fully finished, two open fireplaces. Preferred location. Call Liz Crockford 434-0555, Dianna Larson 481-0936. Spencer Real Estate.

For sale—Choice south side location. Two storey, four bedrooms, family room, separate dining room. Resi Richter, Weber Bros. 483-9432 or 455-4135.

For sale—West end. Spotless, three bedroom bungalow. Finished basement. Resi Richter. Weber Bros. 483-9432 or 455-4135.

For sale—Glenora area. Comfortable four bedroom family home accessible to University. A unique property with character. For appointment 453-2980. No agents.

For sale—\$79,500. West end, easy access to University. Brand new four level split. Buy now and you'll get appliances as a Christmas bonus. Call Eva; res. 432-1255. Spencer Real Estate 436-5250.

For sale—Windsor Park. By owner. Approximately 1,700 sq. ft. bungalow. Finished basement. Large lot. Clear title. \$168,500 firm. For appointment, call Mrs. Gerald 433-8956. No agents please.

For sale—By owner. Blue Quill, 1,756 sq. ft., Perry split, garage, landscaped. \$99,900. Phone 436-3617, 434-3696.

For sale—Make an offer. Large 63' x 14' trailer can be moved to acreage or left on serviced lot in city. Stove, fridge, fully carpeted. Resi Richter. Weber Bros. 455-4135, 483-9432.

For sale—Immediate possession. West end, five bedrooms, three bathrooms, double garage. Resi Richter. Weber Bros. 455-4135, 483-9432.

For sale—Luxury hi-rise. River valley view. Brick fireplace in living room, two bedrooms, two bathrooms, underground parking. Resi Richter. Weber Bros. 455-4135, 483-9432.

Accommodations wanted

Artistic director Citadel Theatre has large four bedroom house near London, England, to exchange for similar house, Edmonton. Lengthy period from June. Call 426-4811.

Wanted room and board 1 January. Male student. Close to University. Would prefer Roman Catholic

family. Leave messages for Robert 432-5677.
 Professor with wife and son would like to rent a house near University starting Spring 1979, at reasonable rate in return for good caretaking. Phone 432-2390, 458-8203.
 Visiting scientist requires furnished accommodation (apartment, suite, or housekeeping rooms), for two persons for 2-3 months from 1 January. Phone campus 5490 (Dr. D.M. Ross). Evenings 436-2593.
 Wanted to rent—One bedroom or larger, apartment or house near the University. 1 January to 1 May 1979. Call 462-3102 or 432-5671.

Automobiles and accessories

Austin Marina 1975. Only 22,000 miles. Available late December. \$1,750. Telephone 436-4367.
 Olds 88—Four door, motor replaced, rebuilt transmission. \$595. 478-4241.
 For sale—1968 Chev Bel-Air AM radio, ps, pb, winterized, summerized \$250. Leaving country. 437-1695. 432-2198 after 5 p.m.
 For sale—Vintage VW Beetle. Completely overhauled. Excellent body and mechanical condition. 452-3958.

Goods and services

Experienced typist. Variety of type styles, symbols. Quality work. 435-4407; 435-5006.
 Expert typing—theses, etc. 455-0641.
 Theses, manuscripts, and publications expertly typed at a reasonable cost, using IBM Selectric correcting typewriters. Raffin and Hart Office Services. 9203N 112 Street. HUB Mall. 433-7727.
 Edmonton YMCA Chito-Ryu Karate Club. Phone 455-2139.
 Campus Hair Centre—8625 112 Street. 439-2423. Student specials.
 Experienced coders, familiar with extracting data from flow charts and questionnaires. Pegi Gunn-Graham 467-3382, Hilary Helling 467-1402.
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